

Figure 1

Underlined = deleted in targeting construct

Bold = sequence flanking Neo insert in targeting construct

GGGGTGGCAGTCGGCACCATCAGGCTCCCTTGGCGTTTCGGAGTTTTCTCTGTGGTCCCG
ACTCTCCGGAGGATCTCGGTTGTCTCCCAAGTCGGAACCTGGCACGGTCCAGGTTCACTC
GGAGGTCCGGGCTTCCCTCTGTGCCCCGTGCCCTCGCTCCCAGGCTCCCTCTGTGGTGTG
GACTCCTCTAGCCCCGTGCGCTCAGCCCCCTCGCACCCAGCCTCCAGGCACAGAGCCCCGGC
AGGGAGCTCAGCCCTTGTGCCTAGAGCTGCAGTGGCTGGACATGAAGGTTCTCCTGTCC
TGCTTCTCTTTCTTCTGTCTCAGTGCGAGCTACTGAGCAACCGCAGGTCGTCACTGAGC
ATCCCAGCATGGAGGCAGCCCTGACCGGGCCCAACGCCTCCTCGCACTTCTGGGCCAACT
ACACTTTTCTCTGACTGGCAGAACTTCGTGGGCAGGAGACGTTATGGGGCCGAGTCCCAGA
ACCCACCGGTGAAAGCACTGCTCATCGTGGCCTACTCATTACCATCGTCTTCTCGCTCT
TCGGTAATGTCTGGTCTGTCTATGTCTCTTCAAGAACCAGCGCATGCACTCGGCCACCA
GCCTCTTCAATTGTCAACCTGGCAGTGGCGGACATCATGATCACATTGCTCAACACGCCCT
TCACTTTGGTCCGCTTTGTGAACAGCACATGGGTGTTTGGGAAGGGCATGTGTCTATGTCA
GTCGCTTTGCTCAGTACTGTTCTCTACATGTCT**CAGCACTGACTCTGACAGCTATCGCAG**
TGGACCGCCACCAGGTCTCATGCATCCACTGAAGCCTCGGATCTCCATCACCAAGGGTG
TCATATATATTGCTGTCTATCTGGGTCTAGGCTACCTTCTTCTCTCTGCCACATGCCATCT
GCCAGAAACTGTTTACCTTCAAGTACAGTGAGGACATTGTGCGCTCCCTCTGCCTGCCGG
ACTTCCCGGAGCCAGCTGACCTCTTCTGGAAGTATCTGGACCTGGCCACCTTCATCTGCT
TCTACCTACTTCCACTCTTCAATTATCTCAGTGGCCTATGCTCGTGTGGCCAAGAAGCTGT
GGCTCTGTAACACCATTTGGCGACGTGACCACAGAGCAGTACCTCGCCCTGCGACGCAAGA
AGAAGACCACCGTGAAGATGCTGGTGTCTTGGTAGTCCTCTTTGCCCTCTGCTGGTTCC
CTCTCAACTGCTATGCTCTCTCTTGTCCAGCAAGGCCATCCACACCAACAATGCCCTCT
ACTTTGCCCTTCCACTGGTTTGCCATGAGCAGTACTTGTTATAACCCCTTCATCTACTGCT
GGCTCAATGAGAACTTTAGGGTTGAGCTTAAGGCATTGCTGAGCATGTGCCAAAGGCCAC
CCAAGCCGCAGGAAGACAGGCTACCTTCCCCAGTTCTTCTCTCAGGGTGGCATGGACAG
AGAAGAGCCATGGTTCGGAGGGCTCCACTACCTAATCACCACTTGCCCTCTTCCCAGATCC
AGTCTGGGAAGACAGATCTGTCTATCTGTGGAACCCGTTGTGGCCATGAGTTAGGGAAAGC
TGGAAGTTGGTGGGGGAGGGTTCTTTCTCTCACAAATTGACCAGACACTAACAGAGTTGG
AAAGTAACACAGAAGCAGTGAGATGCTTGGGTCTCTAGGAACCTGTCCAGCCCCATCTGA
TTTGCAAACCTTTCTAGAAGATGCCATGAGGTGGTGTGTGTAGATCTTTGAGCAAGAGCTC
TGGAAACCACCTCAGCTTCAACAGAGGCTGGTCCAGTCAACCACCTCCAATTGTGTAGCA
TCTGCCACCTTGCCCTTCTTACTGCTGAGCAACCACAGGGGGACTTGAGCCATACTATTG
GTGGGCCTGCCCCACATGCTCAGAAAAGAACAGGCACAAAGGCTTTCTGAAGTCATTGGA
ACAGGAATAATCACACAGCTTCAGTGACCTTGGCTCTATCCATGACCAGACAGGACCCAT
TTTGGCTTCTTAAAAACAAAGAGAAATTAGTATTGCCACTTTGAAAAGTTTCAGAAAAGTA
AAGAAATGAGTTACGCCCTCAATTTGTAAAAAAGGAAAAAAGAAAAAAGAAAAAAG
AAAGAAAAAGCCTGTTAATATGCTGTAAATTTATCTGTAGCTTTGCCTTCTGTGTGTGT
ACATTTGTACTTTTAAAAATCCTGAACGTGCTCCATGTAGATTGTAATAATTAGCAA
GAAACTGGAATATATCAGAGTATTATTGAATTC

Figure 2A

Gene Sequence
Structure *

299 bp

Sequence Deleted

753 bp

Size of partial
cDNA: 2253 bp



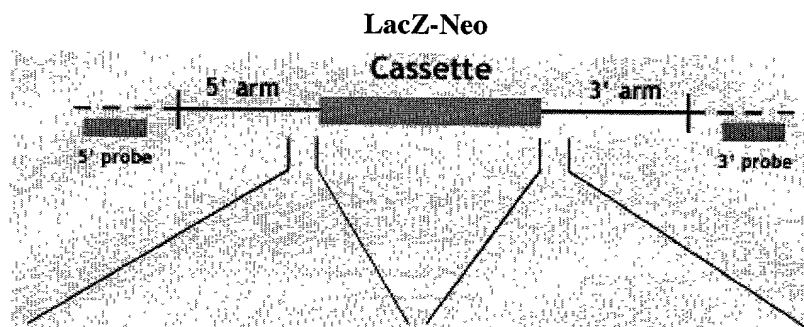
Targeting Vector* (genomic sequence)

Construct Number: 463

Arm Length:

5': 2.5 kb

3': 0.6 kb



5' >CTGGCACGGTCCAGGTTCACT
CGGAGGCCCGGGCTTCTCTGTGC
CCCGTGCCCTCGCTCCCTGGCTC
CCTCTGTGGTGTGGACTCCTCTAG
CCCGGTGCGCTCAGCCCCCTCGCAC
CCAGCCTCCAGGCACAGAGCCCGG
CAGGGAGCTCAGCCCTTGTGCCTA
GAGCTGCAGTGGCTGGACATGAAG
GTTTCTCCTGT <3'
(SEQ ID NO:3)

5' >CAGCACTGACTCTGACAGCTA
TCGCAGTGGACCGCCACCAGGTGA
GAGCACCTGTCCCCAGCAGCATGC
TCCCATCTCCGTCTATGCCTGGCT
GGCTGGTGGGAATACTGCCACCAC
GGTCTGTAGGAATACTCTCAGGA
CAGTGACTCATTCAGTCCCGCTGA
CAGCGTGTGTGCTTGCCTCCTTGT
TGATCAATTTG <3'
(SEQ ID NO:4)

Targeting Vector

Endogenous Locus

Not drawn to scale

Figure 2B